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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/815,394	03/22/2001	Christopher E. Cunningham	66-12424	4354	
7	590 02/12/2003				
Henry C. Query, Jr.			EXAMINER		
504 S. Pierce Ave. Wheaton, IL 60187			KEASEL	KEASEL, ERIC S	
			ART UNIT	PAPER NUMBER	
			3754		
			DATE MAILED: 02/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary							
		09/815,394	CUNNINGHAM, CHRISTOPHER E.				
	omoc Action Cummary	Examiner	Art Unit				
	The MAILING DATE of this communication app	Eric Keasel	3754 t with the correspondence address				
Period fo	•••						
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may y within the statutory minimum of will apply and will expire SIX (6) No., cause the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. e ABANDONED (35 U.S.C. § 133).				
1)[Responsive to communication(s) filed on 25 f	<u> lovember 2002</u> .					
2a)⊠	This action is FINAL . 2b) ☐ Th	is action is non-final.					
3)							
Disposit	closed in accordance with the practice under ion of Claims	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.				
·	Claim(s) 1-15 is/are pending in the application	ı.					
4a) Of the above claim(s) <u>8-15</u> is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/o	r election requirement.					
• •	on Papers						
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
44)[7]	Applicant may not request that any objection to the	- · ·					
11)⊠ The proposed drawing correction filed on <u>25 November 2002</u> is: a)⊠ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
·—							
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior application from the International Bu	rity documents have be	en received in this National Stage				
* 5	See the attached detailed Office action for a list						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
)	* *					
Attachmen	•	_					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Newly submitted, amended claims 8-15 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-7, drawn to a fluid actuated gate valve, classified in class 251, subclass62.
- II. Claims 8-15, drawn to a combination of a tubing hanger, tubing spool, and closure member, classified in class 166, subclass 86.3.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the subcombination valve requires the gate to have a generally flat face which seals the first branch from the gate cavity when the gate is in the closed position. The subcombination has separate utility such as a gate valve used in other combinations, for example with vacuum chambers used in substrate processing.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and because these inventions are distinct for the reasons given above and the search required for Group I is not required for

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Group II, and because these inventions have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 8-15 have been withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (US Patent Number 3,104,659).

Smith discloses a gate valve (18) for controlling the flow of fluid through a component having a fluid flow passage that includes at least a first branch (29) and a second branch (17), the gate valve comprising: a gate cavity (18) which communicates with both the first branch and the second branch; a gate (37) which is movably positioned in the gate cavity and which includes a first flow port (shown in communication with branch 29) that is connected to a second flow port (the straight region denoted with ref. no. 38); and means (21, 22, 23) for actuating the gate between an open position (shown in the Fig.), in which the first flow port is aligned with the first branch and the second flow port is in communication with the second branch, and a closed position, in which the first flow port is offset from the first branch; wherein the gate further

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comprises a generally flat face which is adapted to seal the first branch from the gate cavity when the gate is in the closed position to thereby prevent the fluid from flowing between the first branch and the gate cavity; wherein the second flow port is approximately perpendicular to the first flow port; and wherein the gate comprises a third flow port (shown in communication with branch 17) which is connected approximately perpendicular to the second flow port and which is aligned with the second branch when the gate is in the open position; wherein the actuating means comprises: a piston (41) which is connected to the gate and which sealingly engages a conduit (21) that extends from the gate; and means (22, 23) for conveying hydraulic pressure to a first portion of the conduit to thereby move the gate in a first direction; wherein the actuating means further comprises mechanical biasing means (42) for moving the gate in a second direction which is opposite to the first direction.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4, 5, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith as applied to claim 1 above, and further in view of Craven (US Patent Number 5,415,378).

Smith discloses the one embodiment with fluid pressure acting against one side of the piston and a spring opposing the fluid pressure as the actuating means but does not disclose the alternate embodiment with fluid pressure acting on both sides of the piston. Craven discloses the use of fluid acting on either side of multiple pistons (19) to actuate a similar gate valve (see Figs.

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3 and 4). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the actuating means of Craven with the gate valve of Smith in order to move the gate valve to open, closed, and intermediate positions hydraulically as taught by Craven (see column 1, line 56 to column 2, line 11 and column 3, line 57 to column 4, line 18).

Response to Arguments

6. Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Keasel whose telephone number is (703) 308-6260. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene, or acting supervisor Ehud Gartenberg, can be reached at (703) 308-2696.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

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ek

February 3, 2003

EHUD GARTENBERG

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